

1 Abstract

2 A highly specific and easily purified form of hyaluronidase is described for use in
3 ophthalmic treatments. The enzyme, from *Streptomyces hyalurolyticus* is specific for
4 hyaluronidase and carries out an elimination reaction that results in the production of double
5 bonds at the nonreducing end of hyaluronic acid. Hyaluronidase from *Streptomyces*
6 *hyalurolyticus* has a higher activity than comparable enzymes from other species. The enzyme is
7 now capable of being purified in what is essentially a protease-free form making it applicable to
8 medical treatments. The use of this source of hyaluronidase in ophthalmic treatments is now
9 made possible by its high activity, specificity for hyaluronidase and purity.